"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001342

POPOV, G.A.

"Medical requirements of the rural population" by P.I.Kal'iu and others. Reviewed by G.A.Popov. Sov.zdrav. 18 no.6:44-46 '59. (MIRA 12:8)

(PUBLIC HEALTH, RURAL) (KAL'IU, P.I.)

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013423

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001342

POPOV, G.A. (Moskva)

Method for determining requirements for medical personnel from 1959 to 1965. Sov.zdrav. 19 no.2:15-25 '60. (MIRA 13:5)

1. Glavnyy spetsialist po planirovaniyu zdravookhraneniya Ministerstva zdravookhraneniya SSSR.
(PUBLIC HEALTH)

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013423

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001342

POPOV, G.A., kand.med.nauk (Moskva)

Arrangement and utilization of medical positions. Sov.zdrav. 21 no.10:26-33 '62. (MIRA 15:10)

1. Glavnyy spetsialist po planirovaniyu zdravookhraneniya Ministerstva zdravookhraneniya SSSR.
(MEDICAL CARE)

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013423

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001342

POPOV, G.A. (Moskva)

Methods for determining requirements in the training of pharmaceutical personnel from 1959 to 1965. Apt. delo 9 no.3:66-70 My-Je '60. (MIRA 14:3)

(PHARMACISTS)

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013423

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001342

YERMAKOV, V.V.; MEL'NICHENKO, A.K.; POPOV, G.A.

Status and prospects for the training of pharmaceutical personnel in the U.S.S.R. Apt.delo 8 no.3:31-38 My-Je '59.
(MIRA 12:8)

(PHARMACY--STUDY AND TEACHING)

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013423

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001342

POPOV, G.A.

Determining future demands for pharmacy personnel. Apt.delo 8 no.1:40-45 Ja-F '59. (MIRA 12:2)

1. Nachal'nik Otdela planirovaniya zdravookhraneniya planovo-finansovogo upravleniya Ministerstva zdravookhraneniya SSSR. (PHARMACYSTS)

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013423

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001342

POPOV, G.A. (Moscow)

Planning of the training of medical personnel. Sov.zdrav. 17 no.5:41-47 My '58. (MIRA 11:5)
(EDUCATION, MEDICAL
in Russia (Rus))

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013423

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001342

POPOV, G.A. (Moskva)

Method of determining the need for subprofessional medical personnel and prospects for its training. Sov. zdrav. 20 no.6:58-66 '61.
(MIRA 14:7)

(MEDICAL PERSONNEL)

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013423

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001342

POPOV, G.A.

Sixth Conference of the Ministers of Public Health of countries in the socialist camp. Sov. zdrav. 20 no.12:6-24 '61. (MIRA 15:6)
(COMMUNIST COUNTRIES--PUBLIC HEALTH)

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013423

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001342

Ivan [illegible], Department of Clinical Surgery (Katedrata po fakultetska khirurgiia) Head (Pokoveditel po katedrata) Prof G. POPOV.

"Esophago-Bronchial Fistulae Simulating Pulmonary Disease,"

Sofia, Suvremenna Meditsina, Vol 13, No 9, 1962; pp 8-14.

Abstract [English summary modified] : The difficult differential diagnostic problems posed by small esophago-bronchial fistulae are discussed in the course of 3 cases treated for a long time with the diagnosis of chronic unspecific bronchitis, bronchiectasis, pulmonary tuberculosis. Sour sanguinolent expectorate, paroxysms of cough after drinking should suggest esophagoscopy, bronchoscopy, rentgenologic aids to disclose bronchopulmonary extravasation of swallowed contrast media. There are 3 references, 3 rentgenograms. No references.

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013423

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001342

POPOV, G.; STOYKOV, M.; IVANOV, A.; GOSPODINOV, B.; SEDLOYEV, S.; STOYANOV, Ye.; VOLCHANOVA, S.; KOLEV, L.

Extracardial anastomoses in congenital and acquired heart defects in experiment. Khirurgiia 36 no.3:38-41 Mr '60. (MIRA 13:12)

(HEART--SURGERY)

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013423

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001342

POPOV, G.

Clinical value of Galli-Mainini method in early diagnosis of pregnancy with domestic water frog. Khirurgiia, Sofia 8 no.8:716-719 1955.

1. Vissh meditsinski institut V.Chervenkov - Sofiia. Akushero-ginekologichna klinika. Zav. katedrata: prof. G.Boiadzhiev.
(PREGNANCY TESTS,
frog test)

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013423

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001342

POPOV, G., professor

New by-pass operations of the bile ducts. Khirurgiia 32 no.6:18-21 Je '56. (MLRA 9:10)

1. Iz fakul'tetskoy khirurgicheskoy kliniki (zav. - prof. G.Popov) Vysshego meditsinskogo instituta imeni V.Chervenkova v Sovii.
(BILE DUCTS, surg.
new by-pass operation)

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013423

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001342

Popov, G.A.

AUTHOR: Popov, G.A.

3-58-4-5/34

TITLE: On Planning the Training of Physicians (O planirovanii podgotovki vrachey)

PERIODICAL: Vestnik Vysshey Shkoly, 1958, # 4, pp 16-19 (USSR)

ABSTRACT: At present in the USSR, efforts are being made to furnish every citizen with free medical help. Over 160,000 hospitals, clinics, dispensaries, etc. are in operation. The number of sick-beds rose to 1,432,000 in 1957. According to the 1958 budget, 39.9 billion rubles(3times as much as in 1940) will be spent on health protection.

At present, there are 79 medical and pharmaceutical vuzes and 11 institutes for advanced medical training. Doctors and pharmacists are also trained at the faculties of 5 state universities. In 1957, there were 346,000 physicians, a ratio of one doctor for each 600 persons. Yet, in some districts there is a lack of physicians due to the unrealistic distribution of medical vuzes throughout the country. Physicians also often move from the area to which they were appointed. This creates a shortage in certain districts and an excess in others. The USSR Ministry of Health, in cooperation with the Councils of

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Ministers of other Soviet Republics, is adopting measures to supplement medical personnel with graduates from local medical vuzes. Such "local" vuzes have been organized recently in Blagoveshchensk, Chita, Barnaul, Karaganda, Andizhan, Aktyubinsk, Semipalatinsk, and medical faculties have been set up at the Far East and Yakutsk Universities.

In 1957, Admissions to vuzes in the eastern RSFSR increased 51.2%, to the vuzes in the Uzbek SSR - 45%, and in the Kazakh SSR - more than 100% over 1950.

At the same time, admissions to the medical vuzes in the Armenian, Azerbaydzhan, Latvian and Lithuanian SSR have been reduced.

The article then gives particulars on the decrease in physicians caused by retirement, illness, etc. and on the demand for and training of new personnel. The number of physicians (up to 1964) is already predetermined by the admission of students to medical vuzes in recent years.

The problem of training sanitation experts stomatologists and pharmacists at vuzes where there are no specialized faculties, has not been solved. These specialists will have to be trained in one of the large neighboring vuzes.

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On Planning the Training of Physicians 3-58-4-5/34

In conclusion, the author states that if the number of medical students admitted to the first course remains the same as in 1958 (26,000, including 1,800 to pharmaceutical institutes and faculties), by 1971 the USSR will have 1 physician to each 400 persons.

There is one table.

ASSOCIATION: Ministerstvo zdravookhraneniya SSSR(USSR Ministry of Health)

AVAILABLE: Library of Congress

Card 3/3

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Popov, G.A.

POPOV, G.A., kandidat meditsinskikh nauk

Contribution to a method for reposition of shoulder dislocation.
Ortop.travm. i protez no.2:69 Mr-Ap '55 (MLRA 8:10)

1. Iz gospital'noy khirurgicheskoy kliniki (zav.-kafedroy dotsent A.V.Belichenko) Kurskogo meditsinskogo instituta.
(SHOULDER, dislocation
reposition method)
(DISLOCATION
shoulder, reposition method)

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"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001342

POPOV, G.A., dots.

Portable apparatus for traction in diaphyseal fractures of the long bones. Ortop., travm. protez. 19 no.1:53-54 Ja-F '58. (MIRA 11:4)

1. Iz gospital'noy khirurgicheskoy kliniki (zav. - prof. A.V. Belichenko) Kurskogo meditsinskogo instituta (dir. - prof. A.V. Savel'yev)
(FRACTURES, ther.
in diaphyseal fract., portable appar. for traction (Rus))

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"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001342

POPOV, G.A., kand.med.nauk (Kursk)

Treatment of postoperative pneumonia with a sulfidine emulsion. Klin.med. 35 [i.e.34] no.1 Supplement:49 Ja '57. (MIRA 11:2)

1. Iz kafedry gospital'noy khirurgii (zav. - doktor meditsinskikh n. A.V.Belichenko) Kurskogo meditsinskogo instituta (dir. - prof. A.V.Savel'yev)
(SULPHYRIDINE) (PNEUMONIA)

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013423

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001342

POPOV, Georgiy Alekseyevich; ZHUK, A.P., red.; KUZ'MINA, N.S., tekhn. red.

[Physicians and the planning of their training] Vrachebnye kadry i planirovanie ikh podgotovki. Moskva, Medgiz, 1963. 225 p. (MIRA 16:12)
(PHYSICIANS—EDUCATION)

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013423

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001342

POPOV, G. A., Cand. Medic. Sci. (diss) "Theory and Methods of Determination of Long-range Requirements for Training of Medical Cadres," Moscow, 1961, 19 pp. (Min. of Health USSR, Centr. Inst. Improvem. Trng. of Doctors) 200 copies (KL Supp 12-61, 287-288).

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013423

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001342

POPOV, G.A.

Status of and outlook for the training of subprofessional medical personnel in the U.S.S.R. Med. sestra 20 no. 2:3-10 F '61.
(MIRA 14:4)

1. Glavnyy spetsialist po planirovaniyu, Ministerstvo zdravookhraneniya SSSR, Moskva.
(MEDICAL PERSONNEL)

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013423

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001342

POPOV, G.

Chemical-surgical treatment of malignant tumors. Vop.onk. 7 no.3:90-93 '61. (MIRA 14:5)

(CANCER)

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013423

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001342

SHEKHTMAN, Kh., kand.ekonomicheskikh nauk; POPOV, G.

Economic accountability at the Biysk Grain Procurement Station. Muk.-elev.prom. 26 no.2:17-18 F '60. (MIRA 13:6)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut zerna i produktov yego pererabotki. Direktor Biyskogo khlebopriyemnogo punkta (for Popov).
(Biysk—Grain elevators—Accounting)

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013423

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001342

POPOV, G., inzh.

All creative collectives took part in inspection. MTO 5 no.3: 37-38 Mr '63. (MIRA 16:4)

(Orenburg Province--Technological innovations)

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"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001342

POPOV, G.

Volgograd workers should improve their work. NTO 4 no.10:5 O '62. (MIRA 15:9)

1. Uchenyy sekretar' smotrovoy komissii Vsesoyuznogo soveta nauchno-tekhnicheskikh obshchestv.
(Volgograd Province--Technological innovations)

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013423

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POPOV, G.

Twenty-fifth anniversary of the first petroleum mine. Neftianik 8 no.1:12-13 Ja '63. (MIRA 16:3)
(Komi A.S.S.R.--Petroleum industry)

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"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001342

VOROB'YEV, L.N.; KURELLA, G.A.; POPOV, G.A.

Intracellular pH of Nitella flexillis at rest and after excitation. Biofizika 6 no.5:582-589 '61. (MIRA 15:3)

1. Biologo-pochvennyy fakul'tet Moskovskogo gosudarstvennogo universiteta imeni Lomonosova.

(ALGAE)
(HYDROGEN-ION CONCENTRATION)

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013423

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001342

KURELLA, G.A.; POPOV, G.A.

Determination of pH with the antimony microelectrode. Biofizika 5 no.3:373-375 '60. (MIRA 13:7)

1. Biologo-pochvennyy fakul'tet Moskovskogo gosudarstvennogo universiteta im. M.V. Lomonosova.
(HYDROGEN-ION CONCENTRATION) (ELECTRODES)
(PHYSIOLOGICAL APPARATUS)

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"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001342

POPOV,G. ,prof.

Chemotherapy of malignant tumors. Khirurgiia,Sofia 13 no.2-3: 309-313 '60.
(ANTINEOPLASTIC AGENTS ther.)

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"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001342

POPOV, I.

Steaming concrete. p. 34

Vol. 2, No. 7/8, 1955. STROITELSTROV, Sofiya. Bulgaria

SOURCE: East European Accessions List (EEAL) Library of Congress, Vol. 5, No. 1, January, 1956.

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"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001342

PCICV, T.

PCICV, G. Waterproof cement. p.33.

Vol. 2, no. 10/11, 1955.
STROITELSTVO
TECHNOLOGY
Sofiya, Bulgaria

So: East European Accessions, Vol. 5, no. 5, May 1956

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"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001342

POPOV, G.

POPOV, G Very strong quick-hardening concrete. p.26.

Vol. 3, no. 1, 1956, STROITELSTVO, SOFIYA, BULGARIA

SO: Monthly List of East European Accessions, (EEAL), LC, Vol. 5,no 10, Oct. 1956.

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"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001342

POPOV, G.

POPOV, G. Vacuuming concrete. p. 19. Vol. 3, no. 9/10, 1956. STROITELSTVO. Sofiia, Bulgaria

SOURCE: East European Accessions List (EEAL) Vol. 6, No. 4--April 195

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013423

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001342

POPOV, G.

Posts for long-distance electric cables made from prestressed concrete in Hungary, France, and Algeria.

p. 25 (STROITELSTVO) Vol. 4, no. 6, 1957,
Sofiia, Bulgaria

SO: Monthly Index of East European Accessions (EEAI) LC, Vol. 7, No. 3,
March 1958

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013423

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001342

POPOV, G.

"Determining the content of the concrete mixture for construction of dams."

p.27 (Stroitelstvo, Vol. 5, no. 1, 1956, Sofiia, Bulgaria)

Monthly Index of East European Accessions (EEAI) LC, Vol. 7, No. 8, August 1958

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"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001342

POPOV, G., prof.

Improvement of safety in the anastomosis between oesophagus and small intestines. Nauch. tr. vissh. med. inst. Sofiia 43 no.3: 11-16 '64.

1. Chair of Surgical Diseases with Urology (Director: Prof. G. Popov), Higher Medical Institute, Sofia.

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"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001342

POPOV, G., mladshiy nauchnyy sotrudnik

Some problems in overall automation of the fleet. Mor. flot 25 no.5:33 My '65. (MIRA 18:5)

1. Otdel avtomatizatsii proizvodstvennykh protsessov TSentral'nogo nauchno-issledovatel'skogo instituta morskogo flota.

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013423

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001342

KAPITANOV, G., Prof.; POPOV, G., Prof.; CHERVENAKOV, A., Prof.

Anesthesia in surgery and its achievements and development in Bulgaria. Khirurgiia, Sofia 11 no.5-6:425-438 1958.
(ANESTHESIOLOGY, in Bulgaria (Bul))

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"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001342

POPOV, G., professor

Substitute stomach following total gastrectomy. Khirurgiia 32 no.11: 34-36 N '56. (MLRA 10:3)

1. Iz fakul'tetskoy khirurgicheskoy kliniki Sofiyskogo vysshego meditsinskogo instituta imeni V.Chervenkova (zav. - prof. G.Popov)

(GASTRECTOMY
total, substitute stomach from small intestine)

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013423

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001342

POPOV, G., prof.; MATEEV, B.; IANKOV, Iv.; STOEV, V.; TODOROV, TSv.

Treatment of peptic ulcer through longitudinal resection association with gastroduodenostomy. (Preliminary communication). Khirurgiia 15 no.9/10:927-930 '62.

1. Iz Katedrata po fakultetska khirurgiia s urologiia pri VMI [Vissh meditsinski institut] - Sofiia.
(PEPTIC ULCER) (GASTRECTOMY)

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013423

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001342

POPOV, G.

Gastric carcinoma and the development of total gastrectomy.
Nauch. tr. vissh. med. inst. Sofia 41 no.2:13-24 '62.

1. Predstavena ot prof. G. Popov.
(STOMACH NEOPLASMS) (GASTRECTOMY)

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013423

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001342

PETROV, I.I., doktor tekhn.nauk, prof.; SHCHUKIN, A.I., kand.tekhn.nauk, dots.; ZUSMAN, V.G., kand.tekhn.nauk, dots., ARZAMASTSEV, P.S., kand.tekhn.nauk, dots.; PANTYUSHEV, G.S., kand.tekhn.nauk; NEVRAYEV, V.Yu., kand.tekhn.nauk; POPOV, G.A., dots.

"Principles of electric driving" by A.T. Golovan. Reviewed by I.I. Petrov and others. Elektrichestvo no.8:93-95 Ag '60. (MIRA 13:8)

(Electric driving)
(Golovan, A.T.)

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013423

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001342

USSR/Engines, Diesel
Regenerators

Jun 1947

"Automatic Control of Stands for Testing Diesels with Regeneration of Electric Energy," G. A. Popov, 6 pp

"Vestnik Elektro-Promysh" Vol XVIII, No 6

Discusses the regenerating system with an asynchronous regenerator, power characteristics of an asynchronous regenerator before and after one testing cycle and the system for controlling the testing equipment, with full-page schematic diagram.

10T65

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PHASE I BOOK EXPLOITATION SOV/5337

Panasenkova, Ye. I., ed.

Issledovaniya kriticheskikh parametrov reaktornykh sistem; sbornik statey (Study of Critical Parameters of Reactor Systems; Collection of Articles) Moscow, Gosatomizdat, 1960. 117 p. Errata slip inserted. 3,600 copies printed.

Tech. Ed.: N.A. Vlasova.

PURPOSE: This collection of articles is intended for nuclear physicists and engineers of nuclear power plants.

COVERAGE: The book contains previously unpublished original articles concerned with the theoretical calculation of neutron fluxes and of critical parameters (critical masses and volumes) of various reactor systems: uranium-graphite, uranium-beryllium, and water mixtures of uranium and plutonium. Individual articles present tables and graphs used in the determination of the dependence of critical parameters on the relative concentration and the character of the fissionable material and the moderator, as well as on fuel enrichment for a wide range of neutron energy spectra. The following are mentioned: P.A. Gavrilov (scientific editor of the collection), and S.I. Sobolev, L.N. Sychkova, A. Ya. Rymina, R.P. Rozhina and V.S. Vladimirov (compilers of Table 1, table of values of coefficients k, D_0 and τ). References accompany individual articles.

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Zagrafov, V.G., Interaction of System of a Fissionable Substance In a Scattering Medium 74

Kamyer, A.F., B.G. Dubovskiy, V.F. Vavilov, G.A. Popov, Yu.D. Pulmarchuk, and S.F. Ivanov. Experimental Study of the Interaction Effects of Two Subcritical Reactors 101

Marchuk, G.I., B.G. Dubovskiy, V.F. Seglov, and S.M. Milyutina. The Design of Sectionalized Nuclear Plants 107

AVAILABLE: Library of Congress

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JA/dwg/mas
7-29-61

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013423

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001342

S/089/62/012/004/013/014
B102/B104

21.7200

AUTHORS: Kartashov, N. P., Popov, G. A.

TITLE: Determination of concentrations of aerosols of short-lived radon decay products

PERIODICAL: Atomnaya energiya, v. 12, no. 4, 1962, 336-338

TEXT: A method for aerosol concentration measurements is described which is simpler than the filter method. It is based on an analysis of the curve of α-count-rate growth in an air-filled chamber. From this curve the I(t) curve

$$I(t)=kVC_{Rn}[K_{Rn}+K_A A^A_{Rn}(t)+K_C A^C_{Rn}(t)], \quad (1)$$

is determined at three different times (e.g., t_1 = 2 min, t_2 = 15 min, t_3 = 60 min) and the set of three equations is solved. Then, the chamber is filled with radon and its decay products (Ra, A, B, C), and I(t) is determined again,

$$I(t)=kV\{K_{Rn}C_{Rn}+K_A[C_{Rn}A^A_{Rn}(t)+C_A A^A_A(t)]+ \quad (2)$$
$$+K_C[C_{Rn}A^C_{Rn}(t)+C_A A^C_A(t)+C_B A^C_B(t)+C_C A^C_C(t)]\}.$$

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Determination of concentrations ...

$$I(t)=kVC_{Rn}\{K_{Rn}+K_A[A^A_{Rn}(t)+\eta_A A^A_A(t)]+ K_C[A^C_{Rn}(t)+\eta_A A^C_A(t)+\eta_B A^C_B(t)+\eta_C A^C_C(t)]\}. \quad (3).$$

The K are the efficiencies, C the initial concentrations, η the sought coefficients of shift of radioactive equilibrium, $A^n_m(t)$ the known functions of decay and accumulation of the daughter substances, T_{Rn} the radon half-life. In terms of "saturation" with respect to the daughter product of the count rate, $I(T) = kVC_{Rn}(K_{Rn} + K_A + K_C)$, where $T_{Rn} \gg T \geq 180$ min. From this and (3),

$$\frac{I(t)}{I(T)}=\frac{K_{Rn}+K_A[A^A_{Rn}(t)+\eta_A A^A_A(t)]+K_C[A^C_{Rn}(t)+\eta_A A^C_A(t)+\eta_B A^C_B(t)+\eta_C A^C_C(t)]}{K_{Rn}+K_A+K_C} \quad (5)$$

is obtained. If the concentrations of the decay products are relatively high (> 100 μμ-Curies/liter), $\eta_{A,B,C}$ and C_{Rn} by another mode: I(t) is measured every 40 minutes starting at the moment when the sample is introduced into the chamber. The method was tested with a specially designed scintillation emanometer. It consisted of two scintillation chambers of 1.5 and 3 l with ZnSAg scintillator, and ФЭУ-36 (FEU-3B) multiplier, an electronic circuit with semiconductor elements, a pulse

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B102/B104

Determination of concentrations ...

counter and a supply system. The apparatus was graduated with the alpha radiation of pure radon, and its sensitivity and efficiency were determined. Measurements of $\eta_{A,B,C}$ were carried out with an ore block at the outlet of the mine-ventilation system and on a non-ventilated, blind working. 0.9, 0.4, and 0.2 and 1.0, 0.7, and 0.5 respectively, were obtained. There are 1 figure, 1 table, and 4 references: 2 Soviet and 2 non-Soviet. The two references to English-language publications read as follows: E. Tsivoglou, H. Ager. D. Holaday. Nucleonics, 11, No. 9, 40 (1953). S. Cohn, R. Skow, J. Gong. Arch. of Indust. Hyg. and Occupat. Med., 7, No. 6, 508 (1953).

SUBMITTED: May 27, 1961

Card 3/3

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013423

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001342

DUBOVSKIY, B.G.; KAMAYEV, A.V.; VLADYKOV, G.M.; KUZNETSOV, F.M.; NOZIK, V.Z.; PALAMARCHUK, Yu.D.; POPOV, G.A.; VAVILOV, V.V.

Interaction in subcritical reactors. Atom. energ. 16 no.1:16-20 Ja '64. (MIRA 17:2)

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013423

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001342

KAMAYEV, A.V.; DUBOVSKIY, B.G.; VAVILOV, V.V.; POPOV, G.A.; PALAMARCHUK, Yu.D.; IVANOV, S.P.

[Experimental study of the effects of interaction of two subcritical reactors] Eksperimental'noe izuchenie effektov vzaimodeistviia dvukh podkriticheskikh reaktorov. Moskva, Glav. upr. po ispol'zovaniiu atomnoi energii, 1960. 10 p. (MIRA 17:1)

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013423

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001342

POPOV, G.A.; TARUSOV, B.N.

Nature of the spontaneous luminescence of animal tissues.
Biofizika 8 no.3:317-320 '63.
(MIRA 17:11)

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013423

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001342

L 33245-65 EWT(m)/EPF(c)/EPF(n)-2/EWG(m)/EPR Pr-4/Ps-4/Pu-4 DM

ACCESSION NR: AP4012260 S/0089/64/016/001/0016/0020

AUTHOR: Dubovskiy, B. G.; Kamayev, A. V.; Vlady*kov, G. M.; Kuznetsov, F. M.; Nozik, V. Z.; Palamarchuk, Yu. D.; Popov, G. A.; Vavilov, V. V.

TITLE: Interaction of subcritical reactors

SOURCE: Atomnaya energiya, v. 16, no. 1, 1964, 16-20

TOPIC TAGS: subcritical reactor interaction, reactor safety estimation, fissionable material, equivalent reactor dimension , reactor dimension computation

ABSTRACT: The purpose of the present work is to obtain a method for a reliable safety estimation of interacting systems containing fissionable materials. This estimation is used to provide a safety margin for producing, storing, and transporting fissionable materials. The method of equivalent size has been developed by the authors. This method, in essence, is based on the assumption that a set of subcritical assemblies with specific nuclear properties and geometric parameters can be replaced by a nuclear reactor with equivalent geometrical buckling

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"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001342

L 33245-65
ACCESSION NR: AP4012260

and the former nuclear characteristics. The device for studying the interaction of subcritical assembly in a three dimensional lattice is shown in Fig. 1(Enclosure). The results of the computation are found to be in good agreement with experimental results, having in all cases a safety margin. "The authors are grateful to V. G. Zagrafov for valuable comments." Orig. art. has: 6 figures and 1 table.

ASSOCIATION: None

SUBMITTED: 17Nov62 ENCL: 001

SUB CODE: NP NR REF SOV:002 OTHER: 002

Card 2/3

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013423

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001342

POPOV, G.A., TARUSOV, B.N.

Kinetics of chemiluminescence during the separation of hydrogen peroxide with water-salt animal liver extracts. Biofizika 9 no.4:525-529 '64. (MIRA 18:1)

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013423

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001342

TOPOV, G.A.

Use of the chemiluminescent method for studying oxidation reactions, induced in the biosubstrate, as related to the degree of its damage. Trudy MOIP. Otd. biol. 21:90-98 '65. (MIRA 18:6)

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013423

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001342

L 64736-65 EWT(m)/EPF(c)/EPF(n)-2/EWG(m) ... MM/DM ...

ACCESSION NR: AP5019803 UR/0089/65/019/001/0014/0019 39
621.039.520.22

AUTHOR: Vladykov, G. M.; Dubovskiy, B. G.; Kamayev, A. V.; Sviridenko, V. Ya.; Kuznetsov, F. M.; Popov, G. A.; Palamarchuk, Yu. D.

TITLE: Efficiency of heterogeneous absorbers in homogeneous uranium-water reactors

SOURCE: Atomnaya energiya, v. 19, no. 1, 1965, 14-19

TOPIC TAGS: water moderated reactor, homogeneous nuclear reactor, neutron flux, neutron absorber, reactor control, nuclear reactor core

ABSTRACT: The authors investigated the effect of various absorbers on the value of the critical mass of homogeneous uranium-water reactors. The experiments were made both with reactors having no reflectors and with reactors provided with bottom or side water reflectors up to 25 cm thick. The core was an aqueous solution of $UO_2(NO_3)_2$ in cylindrical steel tanks with walls made of 1.5 mm 1Kh18N9T stainless steel. The absorbing rods were made of powdered boron carbides clad in stainless steel, or else of water-filled cadmium tubing also clad in stainless steel. The efficiency of the absorbing rod is defined as the change in the critical volume or critical height of the reactor assembly with and without the absorber. The efficiency of an isolated rod or of a group of rods was measured as

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"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001342

L 64736-65

ACCESSION NR: AP5019803

as a function of the absorber dimension and of the uranium concentration in the core. The results are presented in the form of a set of plots and tables, in which the experimental data are compared with the values calculated by the two-group theory. The difference between the results is on the order of 10%. Increasing the number of rods in the group increases the critical volume and thus contributes to the safety of the reactor. The use of steel cladding for the absorber rods contributes to the rod efficiency. Orig. art. has: 8 figures, 4 formulas, and 2 tables.

[02]

ASSOCIATION: none

SUBMITTED: 20Jul64 ENCL: 00 SUB CODE: NP

NO. REF SOV: 005 OTHER: 000 ATD PRESS: 4078

Card 2/2

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013423

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001342

POPOV, G.A., kand.med.nauk

Some new methodological techniques of planning public health. service. Zdrav. Ros.Feder. 7 no.11:16-23 N'63 (MIRA 16:11)

1. Nachal'nik otdela planirovaniya zdravookhraneniya Ministerstva zdravookhraneniya SSSR.

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013423

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001342

ROGOV, Anatoliy Il'ich; POPOV, G.A., red.

[Work organization in the sanatoria and health resort institutions of the U.S.S.R.] Organizatsiia truda v sanatorno-kurortnykh uchrezhdeniiakh SSSR. Moskva, Meditsina, 1964. 112 p. (MIRA 17:11)

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013423

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001342

POPOV, G.A.

Fauna of grasshoppers (Acridoidea) in southeastern Transbaikalia.
Zool. zhur. 43 no.9:1309-1316 '64. (MIRA 17:11)

1. Vsesoyuznyy institut zashchity rasteniy, Leningrad.

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013423

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001342

POPOV, G.A.

Change in the composition of life forms of Orthoptera after the development of virgin steppes. Trudy Vses. ent. ob-va 50:121-128 '65. (MIRA 18:5)

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013423

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001342

L 41357-65 EWG(j)/EWT(m)/EPF(c)/EPF(n)-2/EPR/EWP(t)/EWP(b) Pr-4/Ps-4/Pu-4 34
IJP(c) JD/WW/JG
ACCESSION NR: AP4012261 S/0089/64/016/001/0021/0025 B

AUTHOR: Dubovskiy, B. G.; Kamayev, A. V.; Kuznetsov, F. M.; Vlady*kov, G. M.; Popov, G. A.; Palamarchuk, Yu. D.

TITLE: Critical parameters of aqueous salt solutions $UO_2(NO_3)_2$

SOURCE: Atomnaya energiya, v. 16, no. 1, 1964, 21-25

TOPIC TAGS: nuclear reactor, reactor core, critical mass, neutron multiplication, neutron absorption, neutron moderation, cylindrical reactor, aqueous salt solution

ABSTRACT: Experiments designed to determine the critical volumes of aqueous salt solutions $UO_2(NO_3)_2$ with 90% enriched uranium were made for reactors in the shape of spheres, cylinders and rectangular parallelepipeds, with and without water reflectors. Uranium concentration in aqueous salt solutions varies from 36 to 460 g/l, which corresponds to a change in the ratio of hydrogen nuclei ρ_H to nuclei of U^{235} from 780 to 50. In the case of the spherical reactor, the critical mass and critical volume were also determined through correlation of the geometric parameters of the cylindrical and rectangular-parallelepiped reactors with those

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"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001342

L 41357-65
ACCESSION NR: AP4012261

0

of a spherical reactor. This method gives results with an accuracy of ±10% for solutions with water reflectors and ±5% for solutions without reflectors. The effect of the steel bottom of the parallelepiped on the critical height of the solution in the presence of a water-reflector was studied by changing the thickness of the steel between the core and water roflector from 3 to 47 mm. It is pointed out, in conclusion, that the results of the critical experiments can be used to determine the critical parameters of reactor cores in the shape of spheres, cylinders, and rectangular parallelepipeds containing aqueous water solutions of $UO_2(NO_3)_2$. The minimum critical parameters of the aqueous solutions of the $UO_2(NO_3)_2$ salt, obtained by transformation of the geometrical parameters have the following values: critical volume, 8.4 liters; critical mass of U235, 0.85 kg; diameter of the infinite cylinder, 16.7 cm; thickness of the infinite plate, 6.9 cm. Orig. art. has: 6 figures, 5 formulas, 1 table.

ASSOCIATION: none

SUBMITTED: 17Nov62 ENCL: 00 SUB CODE: NP

NO REF SOV: 004 OTHER: 001

Card 2/2

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013423

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001342

ACCESSION NR: AT4042276 S/0000/63/003/000/0005/0008

AUTHOR: Popov, G. A., Tikhonov, V. B.

TITLE: Various approaches to defining the magnetic Reynolds number and the limited scope of univariate approximations of Re sub m for a flow of conducting gas

SOURCE: Soveshchaniye po teoreticheskoy i prikladnoy magnitnoy gidrodinamike. 3d, Riga. 1962. Voprosy* magnitnoy gidrodinamiki (Problems in magnetic hydrodynamics); doklady*soveshchaniya, v. 3. Riga, Izd-vo AN LatSSR, 1963, 5-8

TOPIC TAGS: magnetic Reynolds number, turbulent gas flow, laminar gas flow, electrically conducting gas, gas magnetodynamics, conducting gas flow, Reynolds number

ABSTRACT: The authors analyze several definitions of Re_m and show that for a turbulent flow it is definable as the ratio of magnetic field "carry-off" (by the flow) to the rate of magnetic field diffusion into the flow. They criticize definitions given by various authors in relation to laminar flows: specifically, that Re_m is the ratio of induced current to current required to develop a given external magnetic field at a single coil turn, that it is the ratio of the plasma current-induced magnetic field to an applied external magnetic field, and that it characterizes the ratio of inertial forces to electromagnetic body forces. Their analysis indicates the limited scope imposed by such de-

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"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001342

DUBOVSKIY, B.G.; KAMAYEV, A.V.; KUZNETSOV, F.M.; VLADYKOV, G.M.; POPOV, G.A.; PALAMARCHUK, Yu.D.

Critical parameters of aqueous solutions of $UO_2(NO_3)_2$. Atom. energ. 16 no.1:21-25 Ja '64. (MIRA 17:2)

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013423

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001342

SOV/105-59-10-10/25

8(3)

AUTHORS: Bershadskiy, V. L., Kalashnikov, V. K., Kryazhevskiy, V. V., Popov, G. A. (Moscow)

TITLE: The Electric Drive of the Screws of the Atomic Ice-breaker "Lenin"

PERIODICAL: Elektrichestvo, 1959, Nr 10, pp 50-56 (USSR)

ABSTRACT: The atomic ice-breaker "Lenin" is equipped with a nuclear fuel-driven power system. Steam turbines serve as prime mover. Power is electrically transmitted from the turbines to the screws. The ice-breaker has a water displacement of 16,000 t, three screws, an over-all length of 134 m, a beam of 27.6 m, a turbine power of 44,000 hp, a top speed of 18 knots; the number of revolutions of the middle screw is 195 rpm at top speed, that of the outside screws is 215 rpm (Ref 1). The screws are driven with direct current according to the motor-generator system. The three electric screw motors are fed by four turbogenerator units of constant number of revolutions. A voltage of 1,200 v, unprecedented in shipbuilding, is used for the screws. The electric motor of the middle screw has two armatures with 9,800 hp each. The electric motors of the outside screws have two armatures with 4.900 hp each.

Card 1/3

[illegible] immobile with respect to the [illegible], i.e. [illegible] on Fig 3). The screws are operated by remote control. Due to the fact that the rotary amplifiers serve as exciters, the control devices could be made of mag-slips.

Card 2/3

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The Electric Drive of the Screws of the Atomic Ice-breaker "Lenin"

Thus, the design was simplified and the control devices became much more reliable. Figure 5 shows such a control device. There are 6 figures, 1 table, and 2 Soviet references.

SUBMITTED: May 30, 1959

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013423

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001342

S/729/60/000/000/001/003

AUTHOR: Popov, G.A., Mechanical Engineer.

TITLE: Fundamental types of remote-control systems for the principal marine propulsion power plant.

SOURCE: Kompleksnaya avtomatizatsiya morskikh sudov. Ed. by P.I.Strumpe. Leningrad, Izd-vo "Morskoy transport," 1960, 83-84.

TEXT: The paper sets forth a functional classification and design criteria for the development of remote-control (RC) systems (S) for marine power plants. The number of ships so equipped has at least doubled during the past 2 yrs. Hence, requirements have stiffened, and unification of S and standardization of components are becoming a paramount need. Most ships equipped with RC S are not fully (or not at all) automated; few are fully automated. More than 40% of the ships equipped with RC S are tugs. Classification of RC S: (1) Mechanical (M), i.e., with cable or lever/shaft connection between the remote and the central control station or directly with the local control station at the engines; (2) pneumatic (P); (3) hydraulic (H); (4) electrical (E); (5) combined (C) - prevalently E-M and E-H, less frequently E-P and P-M). The former prevalence of M S has given way to increasing adoption of P systems, which are more dependable, easier to service, require less specialized personnel training, and use compressed air which is available from the engine-starting air supply aboard. Service experience of the various Soviet shipping services and, more especially, the "SDGP" service, which has 67% of its fleet equipped

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number of interlock and control elements. Universal RC S alone, i.e., S that are applicable for various types of engines, are of potential value for the shipping service. This makes the inclusion of a centralized control post in any automatic RC S mandatory, especially for ships with more than one engine. Certain recent designs that undertake to have RC achieved via local control stations installed at the individual engines are absolutely unsatisfactory. Attention is drawn to the TsNIIMF engineering task report on the comprehensive automatization of the tanker "Inzhener A. Pustoshkin," which comprises a purely pneumatic ARCS. A possible version of such a S employs an electric connection between the RC post and the centralized control post, and a pneumatic connection between the centralized post and the engines. The RD plant is currently testing an automatized P RC S elaborated jointly by the plant and the TsPKB-1. These first automatic Soviet RC S will be installed on tugboats of the Latvian maritime service. The elaboration of the "long-arm" system currently under way under the joint effort of TsNIIMF and the TsPKB-4, in cooperation with the RD plant, will produce the first domestic unitary pneumatic system of automatic remote control.

ASSOCIATION: TsNIIMF (Central Scientific Research Institute of the Maritime Fleet).

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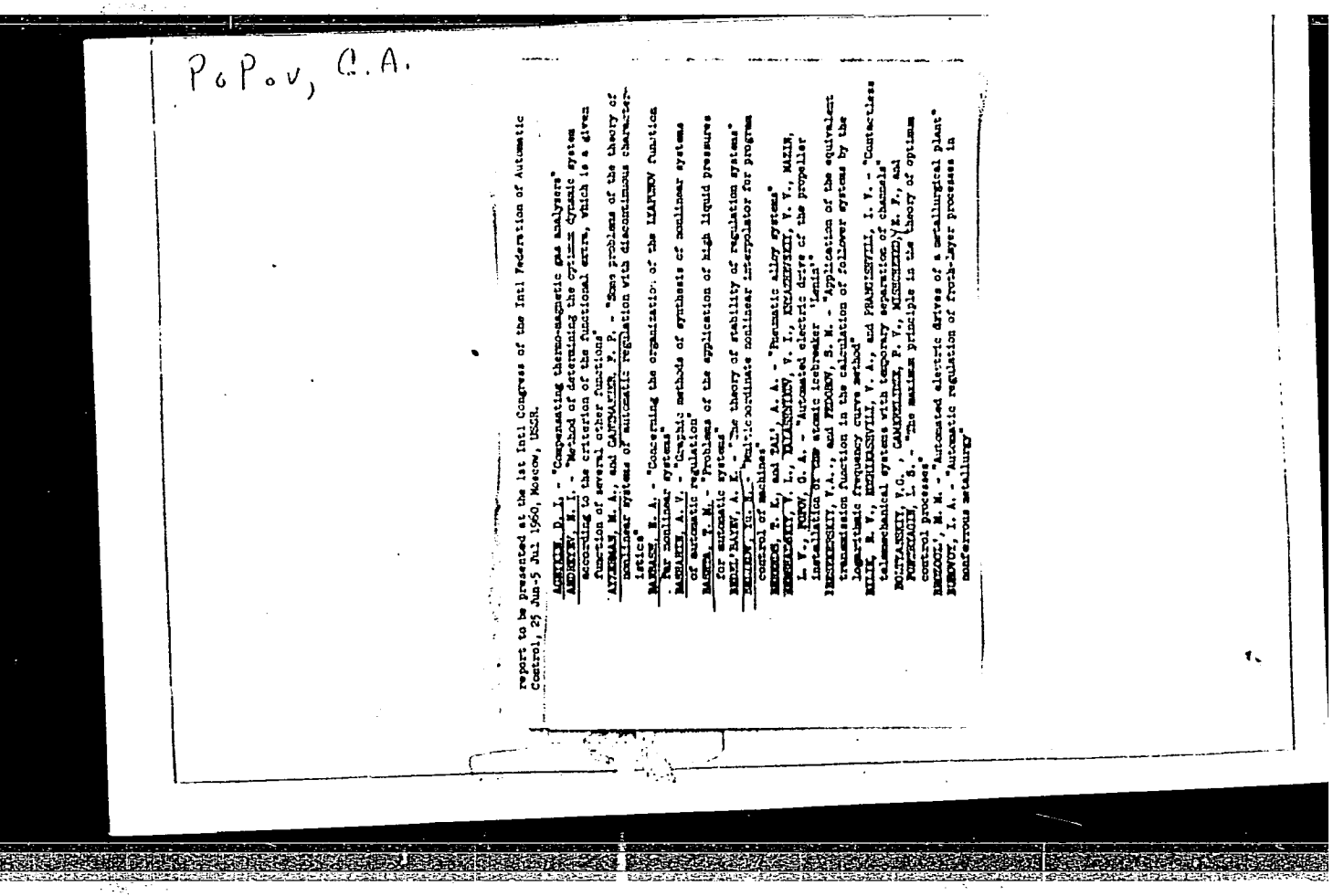
P. P. v, G. A.



Report to be presented at the 1st Intl Congress of the Intl Federation of Automatic Control, 25 Jun-5 Jul 1960, Moscow, USSR.

AGEYKIN, D. I. - "Compensating thermo-magnetic gas analyzers"

ARKHIPOV, M. I. - "Method of determining the optimum dynamic system according to the criterion of the functional error, which is a given function of several other functions"

ATSKHAN, M. A., and CAPYAKIN, K. P. - "Some problems of the theory of nonlinear systems of automatic regulation with discontinuous characteristics"

BAKHSHI, M. A. - "Concerning the organization of the LYAPUNOV function for nonlinear systems"

BESEKERSKIY, V. A. - "Graphic methods of synthesis of nonlinear systems of automatic regulation"

BOGDAN, T. M. - "Problems of the application of high liquid pressure for automatic systems"

BOLTYANSKIY, V. G. - "Multicoordinate nonlinear interpolator for program control of machines"

BRUNOVSKIY, P. I., and TAL', A. A. - "Pneumatic alloy systems"

BUSLENKO, N. P., and KALASHNIKOV, V. V., MAZIN, I. V., POPOV, G. A. - "Automated electric drive of the propeller installation of the atomic icebreaker 'Lenin'"

DENISENKO, V. A., and FEDOROV, S. M. - "Application of the equivalent transmission function in the calculation of follower systems by the logarithmic frequency curve method"

ELIN, M. V., ERLIKHMAN, V. A., and FRANGISHVILI, I. V. - "Contactless telemechanical systems with temporary separation of channels"

KOLTUNSKIY, Yu. G., GAMKRELIDZE, P. V., MISHCHENKO, E. F., and POPOVSKIY, L. S. - "The maximum principle in the theory of optimum control processes"

KRYUKOV, M. M. - "Automated electric drives of a metallurgical plant"

KUKOVOY, I. A. - "Automatic regulation of froth-layer processes in nonferrous metallurgy"

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013423

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001342

Popov, G.A.

Trudy soveshchaniya po avtomaticheskomu upravleniyu elektroprivodami v promyshlennosti. M., Moscow, 1959

Elektroprivod i avtomatizatsiya promyshlennykh ustanovok; trudy soveshchaniya (Electric Drive and Automation in Industrial Systems; Transactions of the Conference) Moscow, Gosenergoizdat, 1960. 470 p. 11,000 copies printed.

General Eds.: I.I. Petrov, A.A. Sirotin, and M.G. Chilikin; Eds.: I.I. Sud, and E.P. Silayev; Tech. Ed.: K.P. Voronin, and O.Ye. Larionov.

PURPOSE: The collection of reports is intended for the scientific and technical personnel of scientific research institutes, plants and schools of higher education.

CONTENTS: The book is a collection of reports submitted by scientific workers at plants, scientific institutes and schools of higher education at the third Joint All-Union Conference on the Automation of Industrial Processes in Machine Building and Automated Electric Drives in Industry held in Moscow on May 12-16, 1959. The Conference was called by the Academy of Sciences USSR, the Gosplan SSSR (State Planning Commission USSR), the GKTK SSSR, the Gosudarstvennyy Komitet po avtomatizatsii i mashinostroyeniyu (State Committee on Automation and Machine Building) and the National'nyy Komitet SSSR po avtomaticheskomu upravleniyu (USSR National Committee on Automatic Control) and prepared by the Nauchno-tekhnicheskiy komitet po avtomatizirovannomu elektroprivodu (Scientific and Technical Committee on Automated Electric Drives), the MEI (Moscow Institute of Energetics), the VNIIEM, the LAI (Institute of Automation and Telemechanics) of the Academy of Sciences USSR, and the Komissiya po tekhnologii mashinostroyeniya (Commission on the Technology of Machine Building) of the Academy of Sciences USSR (commission on the Technology of Machine Building of the Institute of Science of Machine of the Academy of Sciences USSR). It was the purpose of the Editorial Board to arrange the reports in a way which would ensure a relatively systematic presentation of theoretical and practical problems relating to electric drives and automatic control of industrial mechanisms used in various branches of industry. Basic problems of automated electric drive and their solution are outlined. The book also contains articles on electric machinery and means of automation. Considerable attention is paid to noncontact automatic control systems, including systems with semiconductor devices and magnetic amplifiers, and to computers intended both for the analysis and the synthesis of linear and nonlinear automatic regulation and control systems. Reports already published in journals or official publications have been considerably abbreviated; those which have appeared in volume 7 of NII AP transactions or in the journal "Elektrichestvo" are marked with an asterisk. No personalities are mentioned. References accompany some of the papers.

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"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001342

POPOV, G.A.

S/569/61/005/000/002/002
D201/D302

AUTHORS: Bershadskiy, V.L., Kalashnikov, V.K., Kryazhevskiy, V.V., Maziya, L.V. and Popov, G.A. (USSR)

TITLE: Automatic electric propeller drive of the atomic ice-breaker "Lenin"

SOURCE: International Federation of Automatic Control. 1st Congress, Moscow, 1960. Avtomatizatsiya proizvodstvennykh protsessov; mashinostroyeniye, elektroenergetika, elektroprivod, transport. Moscow, Izd-vo AN SSSR, 1961. (Its: Trudy (v.5)), 301-315

TEXT: The authors describe the electric propulsion system of the ice-breaker "Lenin", give the static characteristic of the propeller drive and the graphs of transients as obtained from the system evaluation on an analogue computer and obtained from the performance of the actual installed system. The "Lenin" has steam turbines as the primary motors. These operate a d.c. generator and final d.c. motor drives. The

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Automatic electric ...

following are the characteristics of the ship: displacement - 16,000 tons; maximum length - 134 m; maximum width - 27.6 m; turbine power - 44,000 H.P.; maximum speed - 18 knots; number of propellers - 3; revolutions at maximum ship speed - 195 r.p.m. for the center and 215 r.p.m. for the side propellers; period of autonomy - 1 year. The electric drive system feeds the three propeller d.c. motors from four turbo-generator aggregates, operating at constant speed. The total turbo-generator power is divided between the propeller shafts in the ratio 1 : 2 : 1, so that the center propeller, least exposed to damage, absorbs half the total system power. The drive uses 1200 v.d.c. The propeller motors are of a twin-armature type, 9800 H.P. per armature of the center propeller and 4900 H.P. per armature of the side shafts motors. The excitation generators, also of a twin-armature type have a power of 1920 kw per armature, at the armature voltage of 600 v and 595 r.p.m. Each turbo-generator feeds simultaneously three propeller shaft motors. The center propeller can be driven even when only one turbine is in operation. The armatures of each propeller shaft motor form, together with their

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Automatic electric ...

generators, two independent circuits. The nominal parameters of main machines are chosen for the heaviest of the ship drive situations, i.e., when the ship is stationary with respect to water. The control system was chosen from the point of view of limiting the reverse power generated in braking. This has been achieved by a voltage feedback in the control generator winding. In analyzing the system on an analogue computer it was found that without the feedback stabilizing networks the system be-comes unstable at an oscillating frequency of about 1c/s. The feedbacks required were found to be variable voltage feedbacks in the amplidyne of the generator exciter and motors together with a variable main cur-rent feedback. The time of transient with ship not moving is 10 sec., when reversing - 27 sec. and when reversing in free water - 35 sec. The switching in the main, excitation and control circuits is by means of selective generator switches. Each propeller has 4 selective switches, each having 3 main contacts at 6400 amp., for the center and at 3200 amp for the side propellers. Remote control of the propulsion system is used. In discussion, questions were put by G.A. Popov; I.P. Freydzon (USSR) rounded up the discussion. There are 7 figures, 1 table and 3 Soviet-bloc references.

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POPOV, G.A.

Problems and ways of developing systems of remote control of main marine engines. Inform. sbor. TSNIIMF no.64. Tekh. ekspl. mor. flota no.9:64-72 '61. (MIRA 16:6)
(Marine engines) (Remote control)

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013423

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001342

POPOV, G.A.

Criteria for forecasting the abundance of locusts in southeastern Transbaikalia. Vop. ekol. 7:143-144 '62. (MIRA 16:5)

1. Vsesoyuznyy institut zashchity rasteniy, Leningrad.
(Transbaikalia--Locusts)

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013423

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001342

TSPLENKOV, Ye.P., kand.sel'skokhoz.nauk; POPOV, G.A., nauchnyy sotrudnik; STRUBINSKIY, M.S., nauchnyy sotrudnik

Toxicity of aldrin and dieldrin in the control of the migratory and the Italian locust. Zashch. rast. ot vred. i bol. 5 no.1: 28-29 Ja '60. (MIRA 14:6)

1. Vsesoyuznyy institut zashchity rasteniy.
(Locusts) (Dieldrin) (Aldrin)

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"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001342

Paper 43

Simplified method for determining the coefficient of thermal expansion of enamels. K. F. Avrov and V. [illegible] 2
Pamm. Trudy Novocherkask. Politekh. Inst. 25, No. 4 (1954); Referat. Zhur., Khim. 1955, No. 2528. A simple app. for detg. the coeff. of thermal expansion of the primer and top enamel coatings as well as of the metal and suitable for control labs. is described. The indicator scale of the app. is 0.01 and the vernier 0.005 mm. M. Hrach

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"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001342

POPOV, G.D., inzhener.

Construction of the first welded bridge made of low-alloy NL-2 steel. Stroi.prom. 34 no.5:13-16 My '56. (MLRA 9:8)
(Bridges, Iron and steel--Welding)

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013423

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001342

POPOV, G.P., inzh.

Development of structural forms of metal spans in Soviet bridge building. Mat. po met.konstr. no.8:56-78 '64. (MIRA 18:5)

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013423

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001342

FOTOV, G. D.

Rope

Mechanical apparatus for reeling rope. Les. prom. no. 5, 1952.

9. Monthly List of Russian Accessions, Library of Congress, August, 1952 1953. Unclassified.

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013423

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001342

POPOV, G.D., inzhener.

Guy wire cableway transport of record length span used in building the Stalingrad water power installation. Stroi.prom. 33 no.12: 12-16 D '55. (MLRA 9:3)

1. Proyektstal'konstruktsiya.
(Cableways) (Stalingrad Hydroelectric Power Station)

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013423

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001342

POPOV, G.D., inzh.

Prospects for using lightweight alloys in construction. Prom. stroi. 37 no.1:28-31 Ja '59. (MIRA 12:1)
(Aluminum, Structural)

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013423

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KHAZAN, Iosif Abramovich; KIRILLOV, V.S., dots., kand. tekhn. nauk, retsenzent; KLYUCHAREV, V.A., dots., kand. tekhn. nauk, retsenzent, red.; POPOV, G.D., inzh., retsenzent; GANYUSHIN, A.I., red. izd-va; DONSKAYA, G.D., tekhn. red.

[Steel highway bridges abroad] Stal'nye avtodorozhnye mosty za rubezhom. Moskva, Nauchno-tekhn. izd-vo M-va avtomobil'nogo transp. i shosseinykh dorog RSFSR, 1961. 150 p. (MIRA 14:6)
(Bridges, Iron and steel)

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013423

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1. POPOV, G. D. Eng.

2. USSR (600)

4. Trestles

7. Concrete trestles for the communist construction projects, Stroi. prom., 31, No. 4, 1953.

9. Monthly List of Russian Accessions, Library of Congress, April, 1953, Uncl.

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013423

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POPOV, I. D.

31553. Vosstanovitel'nyy remont stal'nykh lamelov Leg. Prom-st', 1949, [illegible], 19-22

SO: Letopis' Zhurnal'nykh Statey, Vol. 44, Moskva, 1949

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013423

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001342

FOIOT, N. D.

"The Treatment of Patients Suffering From Pulmonary Tuberculosis With Antibacterial Preparations." Cand Med Sci, Odessa State Medical Inst imeni N. I. Pirogov, Odessa, 1955. (KL, No 12, Mar 55)

SO: Sum. No. 670, 29 Sep 55--Survey of Scientific and Technical Dissertations Defended at USSR Higher Educational Institutions (15)

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013423

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VAKHURKIN, V.M.; GLADSHTEYN, L.I.; KARMILOV, S.S.; KLIMOV, S.A.; LEVITANSKIY, I.V.; MALININ, B.N.; NOSOV, A.K.; PAL'M, Yu.A.; POLYAK, V.S.; POPOV, G.D.; RASSUDOV, V.M.; KRASYUKOV, V.P.; SOKOLOV, A.G.; Prinimali uchastiye: GORBATSKIY, Ye.I.; MATVEYEV, S.S.; STRELETSKIY, N.S., prof., retsenzent; MUKHANOV, K.K., dots., retsenzent; BOLOTINA, A.V., red.; MIKHEYEVA, A.A., tekhn. red.

[Light-weight supporting metal structures] Oblegchennye nesushchie metallicheskie konstruktsii. Moskva, Gosstroiizdat, 1963. 282 p. (MIRA 17:2)

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013423

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POPOV, G.D.

Efficient using of metal and combined span structures in building highway and city bridges. Mat.po stal'.konstr. no.5:134-136 '59. (MIRA 13:8)
(Bridges, Iron and steel)

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POPOV, G.D. [Popov, H.D.], nauchnyy rabotnik

Movable lighting unit used while watering farm crops at night.
Mekh. sil' hosp. 10 no.4:31 Ap '59. (MIRA 12:6)

1.Ukrainskiy nauchno-issledovatel'skiy institut mekhanizatsii i elektrifikatsii sel'skogo khozyaystva.
(Lighting) (Farm equipment)

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"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001342

POPOV, G.D., kand.med.nauk

Further investigations on the problem of late results in the treatment of pulmonary tuberculosis with antibacterial preparations. Pat., klin. i terap. tub. no.8:170-174 '58. (MIRA 13:7)

1. Iz kafedry tuberkuleza Odesskogo meditsinskogo instituta im. N.I. Pirogova.

(TUBERCULOSIS)

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"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001342

POPOV, G.D., kand.med.nauk

Compound treatment of experimental tuberculosis with antibacterial drugs (streptomycin and paraaminosalicylic acid) and with a stimulator (muskulen). Pat., klin.i terap.tub. no.8:248-250 '58. (MIRA 13:7)

1. Iz kafedry tuberkuleza Odesskogo meditsinskogo instituta im. N.I. Pirogova.
(TUBERCULOSIS) (STREPTOMYCIN) (SALICYLIC ACID)
(TISSUE EXTRACTS)

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013423

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001342

CHERNENKOV, A.D., kand.sel'skokhoz.nauk; POPOV, G.F., inzh.

Rotary cultivator. Trakt.i sel'khozmash. 30 no.10:29-30 O '60. (MIRA 13:9)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut kormov im. V.R.Vil'yamsa [VIK].
(Cultivators)

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013423

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001342

POPOV, G.F., inzh.

Calculations for working parts of rotary cultivators. Trakt. i sel'khozmash. 33 no.2:34-36 F '63. (MIRA 16:3)

1. Vsesoyuznyy institut kormov. (Cultivators)

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013423

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001342

POPOV, G.G., inzhener.

Single-rail weight retarders for hump yards. Vest.TSNII MPS 15 no.2:56-57 S '56. (MLRA 9:12)
(Railroads--Hump yards)

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013423

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001342

POPOV, G.G., inzh.

Braking with manual brake shoes in winter. Vest. TSNII MPS 16 no.8:47-48 D '57. (MIRA 11:1)
(Railroads--Brakes)

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013423

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001342

POPOV, Georgiy Georgiyevich, kand.tekhn.nauk; USOV, Anatoliy Mikhaylovich, kand. tekhn.nauk; POPOV, A.V., inzh., red.; VERINA, G.P., tekhn.red.

[Investigating the fatigue strength of steel] Issledovanie ustalostnoi prochnosti stali. Moskva, Gos.transp.zhel dor.izd-vo. 1958. 130 p. (Moscow. Vsesoiuznyi nauchno-issledovatel'skii institut zheleznodorozhnogo transporta. Trudy, no. 159) (MIRA 12:1)

(Steel--Testing)

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013423

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SKROBOV, S.A., glav. red.; POPOV, G.G., otv. red.toma; BURYAK, G.V., zam. red. toma; SEMEYKIN, A.I., red. toma; TRIBUNSKIY, I.P., red. toma; PANOVA, A.I., red.izd-va; IVANOVA, A.G., tekhn. red.

[Geology of coal and combustible shale deposits in the U.S.S.R.] Geologiia mestorozhdenii uglia i goriuchikh slantsev SSSR. Moskva, Gosgeoltekhizdat. Vol.10.[Coal basins and deposits in Kamchatka and the northeastern part of the U.S.S.R.]Ugol'nye basseiny i mestorozhdeniia Severo-Vostoka SSSR i Kamchatki. Redkol.: G.G.Popov i dr. 1962. 403 p. (MIRA 15:12)

1. Russia (1923- U.S.S.R.)Ministerstvo geologii i okhrany nedr. (Soviet Far East--Coal geology)

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PHASE I BOOK EXPLOITATION SOV/3416

Akademiya nauk SSSR. Institut mashinovedeniya

Voprosy prochnosti materialov i konstruktsiy (Problems of Strength of Materials and Structures) Moscow, 1959. 399 p. Errata slip inserted. 3,200 copies printed.

Resp. Ed.: D. N. Reshetov, Professor, Doctor of Technical Sciences; Ed. of Publishing House: G. B. Gorshkov; Tech. Ed.: S. T. Shikin.

PURPOSE: This book is intended for engineers and scientists concerned with the problems of the strength of materials and construction.

COVERAGE: The book contains 28 articles on the strength of materials in general and of machine construction in particular. This collection was prepared under the direction of the Institute of Mechanical Engineering of the AS USSR in honor of Sergey Vladimirovich Serensen, one of the founders and directors of the national school of strength of materials, who recently completed 30 years of scientific activity. The preface gives a short sketch of his life and professional activities. The collection is divided into two parts. The first part contains 13 articles on general problems of strength and the strength of machine construction materials.

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The second part contains 15 articles on dynamics and calculation of strength and rigidity. There are references at the end of each article.

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